

CLAIMS

What Is Claimed Is:

1. A sewer relief valve assembly for a sewer clean out having interior threads, comprising:
 - a cylindrical sleeve dimensioned for insertion into the clean out and having an interior surface formed as a conduit and exterior threads adapted for mated engagement with the interior threads of the clean out,
 - valve means disposed in said cylindrical sleeve displaceable from a closed position to an open position by pressurized fluid in the clean out,
 - at least one perforated compartment adjoined to said interior surface of said cylindrical sleeve; and
 - a water-soluble disinfectant composition disposed in said perforated compartment, whereby pressurized effluent will cause the displacement of the valve means to said open position permitting discharge of the effluent through the clean out and simultaneous release of said water-soluble disinfectant composition from said perforated compartment into the effluent.

1 2. The device of claim 1, wherein said cylindrical sleeve includes at least two
2 longitudinal slots therein having a length and an upper portion terminating in a
3 flange; and

4 said valve means comprises a float member vertically displaceable in said
5 cylindrical sleeve, said float member having an upper portion having a configuration
6 complementary to said flange wherein said upper portion is seated in said flange in
7 said closed position and includes a top surface forming a cover for said clean out in
8 said closed position; said float member further comprising an elongate lower portion
9 descending into said cylindrical sleeve, said lower portion including at least two arms
10 extending laterally therefrom corresponding to said at least two slots wherein said
11 arms are slidably positioned in said slots wherein said float member is fixedly
12 attached to said cylindrical sleeve and upwardly vertically displaceable along the
13 length of said longitudinal slots to said open position.

1 3. The device of claim 1, wherein said at least one perforated compartment is
2 formed as an annular container concentrically positioned in said cylindrical sleeve.

1 4. The device of claim 1, further comprising a water-soluble dye composition
2 disposed in said compartment.

1 5. The device of claim 2, wherein said lower portion of said float member has a
2 frusto-conical configuration.

1 6. The device of claim 1, further comprising:
2 a sensing means for detecting when said valve means is in an open position;
3 an alarm means coupled to said sensing means, wherein said alarm means is
4 activated when said valve is in said open position; and
5 a timing means coupled to said alarm means whereby said alarm means is
6 activated continuously for a predetermined period.

1 7. The device of claim 6, wherein said alarm means is a light emitting diode
2 (LED).

1 8. The device of claim 2, wherein said upper portion and said lower portion of
2 said float member are detachable from one another.

1 9. The device of claim 8, wherein said upper portion and said lower portion
2 respectively include mated threads.

1 10. The device of claim 5, further comprising:

2 a first magnetic strip adjoined to said cylindrical sleeve;

3 a second magnetic member strip adjoined to said float member wherein said
4 first magnetic strip and said second magnetic strip are in contact with one another
5 when said float member is in said closed position;

6 an electric circuit disposed in said float member in electrical communication
7 with a power source;

8 an alarm means in electrical communication with said circuit; and

9 a switch means in communication with said second magnetic strip and said
10 electric circuit, said switch means operable to energize said electric circuit when
11 contact between said first and second magnetic strips is terminated, wherein said
12 alarm means is activated when said contact is broken.

1 11. The device of claim 10, further comprising a timing means coupled to said
2 alarm means, wherein said alarm means is activated continuously for a predetermined
3 period.

1 12. The device of claim 6, wherein said alarm means is a light emitting diode
2 (LED) disposed on said top surface of said float member.

- 1 13. The device of claim 6, wherein said alarm means is an audible alarm.
- 1 14. The device of claim 6, wherein said alarm means is an RF transmission.
- 1 15. The device of claim 1, wherein said cylindrical sleeve is constructed from
2 polyvinyl chloride (PVC).
- 1 16. The device of claim 1, wherein said float member is constructed from
2 polyvinyl chloride (PVC).
- 1 17. The device of claim 1, wherein said at least one perforated compartment
2 comprises a plurality of walls defining an interior space wherein one of said walls
3 includes a hingedly moveable door member having a latch means attached thereto
4 whereby said interior space can be accessed to replenish said water-soluble
5 disinfectant composition.